

OVER-VOLTAGE PROTECTION CIRCUIT

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ABSTRACT OF THE DISCLOSURE

In an embodiment of the invention a circuit is used for providing a regulated voltage. The circuit comprises an upper transistor connected to an input voltage from a voltage source, a lower transistor connected to the upper transistor, a pulse width modulator for generating control signals for the upper and lower transistors and a voltage protection circuit. The voltage protection circuit comprises an over-voltage detector circuit powered by the regulated voltage. The voltage protection circuit can cause the lower transistor to draw sufficient current from the voltage source such that an over-voltage condition becomes abated.